

## Minimum Design Standards for Public Streets and Alleys – Draft August 2009

| Minimum Design Standards<br>(1- see notes) | Functional Classifications  |   |  |   |   |   |   |   |  |                     |     |
|--|---|---|--|---|---|---|---|---|--|---------------------|-----|
|  | Principal Arterial  | Minor Arterial  | Commercial Mixed Use Collector Arterial                                      | Industrial Collector Arterial             | Neighborhood Collector Arterial           | Commercial Mixed Use Access                           | Industrial Access                             | Residential Access  | Limited Residential Access                                       | Alleys              |     |
| Minimum Structural Design                  | See Standard Drawing or Pavement section and may be designed using procedures described in the <i>Asphalt Institute's Thickness Design Manual</i> , latest edition.   |   |  |   |   |   |   |   |  |                     |     |
| Motor Vehicle ADT                          | 14,000-40,000   | 3,000-20,000  | 3,000-14,000   | 3,000-14,000                              | 3,000- 14,000                             | 0- 3,000  | 0- 3,000                                      | 0- 3,000  | 0- 300   | N/A                 |     |
| Sidewalks (2)                              | 8' both sides (3)   | 8' both sides (3)   | 8' both sides (3)  | 6' both sides (3)                         | 6' both sides (3)                         | 6' both sides (3)                                     | 6' both sides (3)                             | 5' both sides (3)   | 5' both sides (3)  | None                |     |
| Planting Strips (4)                        | 8' between curb & walk both sides; 6' min   | 8' between curb & walk both sides; 6' min                       | 8' between curb & walk both sides; 6' min                                    | 8' between curb & walk both sides; 6' min | 8' between curb & walk both sides; 6' min | 8' between curb & walk both sides; 6' min             | 8' between curb & walk both sides; 6' min     | 8' between curb & walk both sides; 6' min                             | 8' between curb & walk both sides; 6' min                        | None                |     |
| Center Median                              | Center median allowed for boulevard treatment and center left turn lane. Width will be width of center left turn lane minus 1-foot from thru traffic travel lanes on both sides. Pull-outs with a minimum 25 foot length required for maintenance and emergency vehicles within the median at intervals of 300-350' |   |  |   |   | N/A   | N/A   | N/A   | N/A  | N/A                 |     |
| Street Tree Spacing                        | Required, see Street Trees Standards RMC 4-4-070.   |   |  |   |   |   |   |   |  |                     | N/A |
| Parking Lanes                              | None  | None  | 8' both sides  | 10' both sides                            | 8' both sides                             | 8' both sides   | 8' both sides                                 | 6' parking lanes  | 6' parking lane  | None                |     |
| Curbs                                      | Curb both sides   | Curb both sides   | Curb both sides  | Curb both sides                           | Curb both sides                           | Curb both sides                                       | Curb both sides                               | Curb both sides   | Curb both sides  | None                |     |
| Bicycle Facilities (5)                     | All classifications of Arterials will have Class I, and Class II or Class III bicycle facilities. Exceptions are roadways within the Downtown Core Area where a Class II or Class III bicycle facility is required.   |   |  |   |   |   |   |   |  | N/A                 |     |
| Lane Widths (6)                            | 11-foot travel lanes, 5-foot bike lanes, and 12-foot center left turn lanes.  |   | 10-foot travel lanes, 5-foot bike lanes, and 11-foot center left turn lanes. |   |   | 10-foot travel lanes                                  |   |   | 1 travel lane- 12' (7)   | Res.- 12' Com.- 16' |     |
| Roadway width, not including parking       | 4 lanes- 54'<br>5 lanes- 66'<br>6 lanes- 76'<br>7 lanes- 88'  | 4 lanes- 54'<br>5 lanes- 66'<br>6 lanes- 76'<br>7 lanes- 88'    | 2 lanes- 30'<br>3 lanes- 41'   | 2 lanes- 30'<br>3 lanes- 41'              | 2 lanes- 30'<br>3 lanes- 41'              | 2 lanes- 20'<br>3 lanes- 31'                          | 2 lanes- 20'<br>3 lanes- 31'                  | 2 lanes- 20'<br>Parking allowed on one or both sides. Or neither.     | 1 lane- 12'<br>Parking allowed on one or both sides. Or neither. | N/A                 |     |
| R-O-W                                      | 4 lanes- 92'<br>5 lanes- 104'<br>6 lanes- 114'<br>7 lanes- 126'   | 4 lanes- 92'<br>5 lanes- 104'<br>6 lanes- 114'<br>7 lanes- 126' | 2 lanes- 84'<br>3 lanes- 95'   | 2 lanes- 88'<br>3 lanes- 99'              | 2 lanes- 84'<br>3 lanes- 95'              | 2 lane- 68'   | 2 lane- 68'                                   | 2 lanes- 64' parking both sides, 58' parking one side 52' no parking. | 40'  | Res.- 14' Com.- 16' |     |
| Intersection Radii                         | 35' turning radius (8)  | 35' turning radius (8)  | 35' turning radius (8)   | 35' turning radius (8)                    | 35' turning radius (8)                    | 25' curb radius (8)                                   | 25' curb radius (8)                           | 25' curb radius (8)   | 25' curb radius (8)  | N/A                 |     |
|  | At the intersection of two classes of streets, the radius for the higher class street is to be used. Where larger trucks, transit and school buses are anticipated, further design will be required to determine an adequate radius. The minimum curb radius is 15 feet.  |   |  |   |   |   |   |   |  |                     |     |
| Cul-de-sac Radii                           | Prohibited RMC 4-7-150.   |   |  |   |   |   | Prohibited RMC 4-7-150. 45 feet when allowed. |   |  | N/A                 |     |
| Pedestrian Bulb-outs                       | Curb bulb-outs required where on-street parking is located.   |   |  |   |   |   |   |   |  |                     | N/A |
| Grades                                     | 0.5-8%  | 0.5-8%  | 0.5-10%  | 0.5-10%                                   | 0.5-10%                                   | 0.5-15%, greater than 15% may be allowed, RMC 4-6-060 |   |   |  | 0.5-15%             |     |
| Maximum Design Speeds                      | 35 mph  | 35 mph  | 30 mph   | 30 mph                                    | 25 mph                                    | 25 mph  | 25 mph  | 25 mph  | 25 mph   | 10 mph              |     |
| Site Access                                | Determined on a case by case basis.   | 125' from intersection  | 125' from intersection   | 125' from intersection                    | 125' from intersection                    |   |   |   |  |                     |     |
| Street & Pedestrian                        | Architectural street and pedestrian lighting standards will be established on a case-by-case basis for street corridors. Street lights are required at street intersections only. Pedestrian scale lighting is required between street intersections.   |   |  |   |   |   |   |   |  |                     | N/A |

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| Lighting | <p><b>NOTES AND CONDITIONS: MINIMUM DESIGN STANDARDS TABLE FOR PUBLIC STREETS AND ALLEYS:</b></p> <p>(1) Minimum design standards may be altered to allow alternative stormwater management and low impact development techniques within the R-O-W.</p> <p>(2) Sidewalk width will be 12 feet both sides in the City Center Community Planning Area. This sidewalk width includes street tree grates for locating street trees.</p> <p>(3) Sidewalk areas may be required at a wider width to accommodate required multi-use path facilities when a Class I multi-use path is required within a street R-O-W. Class I facilities are required on all classifications of Arterials, on one side. Preferred width for Class I facilities are 12 feet with a minimum of 10 feet.</p> <p>(4) Unless otherwise agreed upon by the City of Renton, maintenance of street trees, turf, softscape, hardscape or other landscaping within the planting strip amenity area is the responsibility of the adjacent property owner. Tree grates are allowed Citywide.</p> <p>(5) Class II bicycle facilities (bike lanes) included in roadway width for both sides. Bicycle facilities that are shared travel ways, Class III bicycle facilities, require less roadway width. Class III travel lanes are a minimum of 14 feet.</p> <p>(6) The City may require different lane width dimensions to address safety concerns or to meet state and federal requirements for state routes or grant funding.</p> <p>(7) Requirement: Either fire sprinklers shall be provided as approved by Fire &amp; Emergency Services or a clear roadway area shall be provided for emergency vehicles midblock. All of the clear area must be 20 feet in width for vehicular movement with a minimum length of 50 feet and maximum length of 100 feet. Along the clear area only, the planting strip would not be required and the clear area will be in place of the landscaping area.</p> <p>(8) Turning radius dimensions represent the vehicle turning path. The smallest curb radius should be used while maintaining the specified turning radius. Lane width and the presence of a bike lane and parking lane affect a vehicle's turning path. On streets with more than one lane in that direction of travel, large vehicles may encroach into no more than one-half of the adjacent travel lane to complete the turn. On Arterials and Collector Arterials, encroachment into oncoming travel lanes is unacceptable. The minimum curb radius is 15 feet.</p> |
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